

Sika® C-250 Spray

Spray Applied Insulation Adhesive

Product Description Moisture-curing PU based spray insulation adhesive in a pressurized canister system.

Uses Sika® C-250 is a sprayable adhesive to bond suitable thermal insulation boards to specific substrates.

Characteristics / Advantages

- Quick and professional adhesive application
 - Adheres to solid, rough and clean surfaces
- Suitable Insulations**
- Decotherm, tissue faced PIR thermal insulation
- Suitable Substrates**
- S-Vap 5000E SA vapour control layer

Tests ■ Quality management system EN ISO 9001/14001

Product Data

Form **Consistency/Colour**
Foaming liquid
Colour - Green

Packaging One way canister:- 24.5kg (adhesive 18.4kg)
Packaging unit:- Single canister
Packaging dimension:- Card board box 320mm x 320mm x 460mm



Storage

Storage Conditions / Shelf Life

Store in dry conditions at temperatures between +5°C to 25°C
12 months from date of production if stored properly in original, unopened and undamaged sealed container. Expiry date on container. The adhesive will have a limited life once the container is opened.

Roofing



Technical Data

Chemical Base Moisture-curing PU based adhesive

Application Details Open time (20°C) 1-4 minutes
Curing time (20°C) 15 minutes

System Information

Coverage Rates Consumption depends on the roughness and absorbency of the substrates and ranges approximately from 130g/m² - 260g/m²
Beads width approximately 30mm with a distance of 250mm in the central zone and 30mm with a distance of 166mm in the perimeter zone
One single canister can cover approximately up to 140m² of the central zone

Substrate Quality The substrate must offer sufficient strength and adhesion to resist the forces generated by wind suction.

Substrate Preparation

Existing Waterproofing - General Preparation The substrate must be resistant to solvent, firm, clean, dry, free of stripping agents and free of oil and grease.

Initial Power Wash Note: Exercise suitable precautions when using high pressure equipment and check for any roof leaks and drainage for adequate flow

The roof surface must be **completely** dry before adhering any boards.

Specific Substrate Preparation

Felt Inspect the felt, vapour blisters must be star cut, turned back, dried out where necessary and then re-fixed. Badly cracked or degraded felt is to be replaced with Sika Liquid Plastics Carrier Membrane bonded in Sika Liquid Plastics Decostik® SP cold fusion adhesive. Ensure the felt is correctly laid and/or suitably adhered and provides a smooth level surface to accept the following insulation system. Seal all repairs to ensure the continuity of the vapour control layer.

Note: Exercise all necessary care when cutting. Brush away excess grit from mineral surfaces.

Asphalt Inspect the asphalt, gas blisters must be flattened, slump or sag reinstated, damaged asphalt removed and significant cracks filled. Use an appropriate polymer modified mortar or other suitable approved compatible material. Repairs are to be allowed to cure prior to application. Seal all repairs to ensure the continuity of the vapour control layer.

Solar Reflective Paint Ensure that the existing material is sound and firmly adhered. Loose or damaged coatings are to be removed.

Application Conditions and Limitations




Substrate and Ambient Temperature

Substrate must be frost free and visibly dry.

Dew Point

Beware of condensation. Surface temperature during application must be at least +5°C above dew point.

Application Method

Based on the valid installation instructions of the relevant roof waterproofing membrane.

In central zones apply 4 continuous beads of adhesive per metre (250mm centres) in parallel straight lines with a foam bead width of approximately 30mm (130g/m²). In perimeter zones apply 6 continuous beads of adhesive per metre (166mm centres) with a liquid bead width of approximately 30mm (195g/m²). Do not apply more adhesive than can be covered in 5 minutes. The insulation boards or vapour control layer must be laid and pressed into the adhesive immediately after spray application.

When bonding insulation boards it is recommended that periodic checks are carried out to check that the adhesive ridges have been squeezed flat. Do this by gently lifting the insulation material at the leading edge. This is especially important on very uneven substrates.

Based on the valid installation instructions of the relevant roof waterproofing membrane.

The canister and gun will remain usable for 2 weeks after opening. If you do not intend to use the system within this time the adhesive in the hose and gun should be renewed by purging approximately 250ml of adhesive through the system every 2 weeks. If the system is not going to be used for longer than 2 weeks we recommend flushing the gun and hose with the Sika Canister Flushing System.

Once the canister in use is empty, the gun/hose can be transferred to a new canister.

Canister Set-Up

It is important to set-up your Sika C-250 Spray Canister Adhesive correctly before use to ensure the best possible performance and to avoid leakage or system failure.



Remove the black cap from the canister valve.



Attach the braided-hose to the canister valve (using the small nut) and attach the other end of the braided-hose to the spray-gun (using the large nut). Tighten with a spanner.



Attach the other end of the braided-hose to the spray-gun (using the large nut). Tighten with a spanner.



Fully open the valve on the canister.



Pull the trigger on the spray-gun to apply adhesive.



Adjust the spray pattern by turning the black valve on the spray-gun anti-clockwise until you have a spray of approximately 30mm in width.

Roofing



Canister Maintenance Guide

Once the work has been completed, ensure the valve of the canister remains open. Failure to do this may cause the adhesive to block the hose.



Turn the spray-gun off by turning the block valve clockwise until it is fully closed.

Canister Flushing System



Ensure the valve on the canister is completely turned off before attaching the assembly.



Unscrew the hose from the canister valve.



Attach the assembly to the valve. Ensure the assembly remains upright whilst you tighten the nut on it. Attach the hose to the assembly. Ensure the assembly remains upright whilst you tighten the hose.



Check the tap on the assembly is off before applying the Sika Spray Cleaner. Screw the Sika Spray Cleaner into the hose and open the red valve.



Aiming the gun into a waste container, apply pressure to the trigger on the gun to push Sika Spray Cleaner through the hose and gun until the adhesive starts to dispense. Keep pressure on the trigger until the hose and gun are thoroughly cleaned.

Canister Disposal System



The Sika® C-250 Spray canister contains compressed gas. It should be emptied by carefully opening the valve, which will release any excess adhesive and/or pressure.

Allow any excess adhesive and/or pressure to fully escape into a suitable container. Leave the valve open.

Once the canister is empty and completely depressurised, the circular disk can be pierced using a non-ferrous bar/rod.

Allow any remaining adhesive to cure. The empty depressurised canister should be disposed/recycled in accordance to site regulation.

Tool Cleaning

Tools and equipment must be cleaned with Sika Spray Cleaner immediately after use.

The hose and application gun can be cleaned with the flush adaptor and Sika Spray Cleaner.

Installation

Installation works to be carried out only by Registered Sika Liquid Roofing Contractors.

Approximate Curing Times

Temperature limits for the installation of the adhesive:-

Substrate temperature: at least +5°C

Ambient temperature: at least +5°C

Installation of some ancillary products, e.g. contact adhesives/cleaners is limited to temperatures above +5°C. Please observe information given by Product Data Sheets.

Special measure may be compulsory for installation below +5°C ambient temperature due to safety requirements in accordance with national regulations.

Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstance beyond our control.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet.

Disclaimer

The information, and, in particular, the recommendations relating to the application and end- use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Specification Assistance

NBS is the industry standard specification system, which allows architects, specifiers and engineers to insert clauses into specifications by manufacturer and product, making the process quicker and more efficient. We are members of NBS Plus and therefore detailed up-to-date product information is readily available to create accurate specifications.

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